

Amendments to the Specification

Please replace the current sequence listing with the paper copy of the sequence listing submitted herewith.

Please replace the paragraph at page 6, lines 18-25, with the following paragraph:

Brief Description of the Drawings.

Figure 1 illustrates the construction of the suicide/transformation vector pGIT5.

Figure 2 shows the primers used for the amplification of the *aroB* gene from *Neisseria meningitidis* and construction of an *aroB* deletion mutant. The primers sequences shown are aroB1 (SEQ ID NO: 3), aroB2 (SEQ ID NO: 4), aroB3 (SEQ ID NO: 20) and aroB4 (SEQ ID NO: 6).

Figure 3(i)-3(iv) ~~illustrates~~ illustrate the construction of an *aroB* deletion mutant.

Figure 4 illustrates the construction of an *asd* mutant.

Figure 5A-5D ~~illustrates~~ illustrate the production of a *fur/lac* fusion strain.

Please replace the paragraph at page 23, lines 17 through page 24, line 30 with the following paragraph:

PRIMERS

Name – Gene – Sequence – Direction – Enzyme

T G

aro1 – *aroA* – GGAATTCGATTCCGATGATATCCGTCATATG – forward – *EcoRI* (SEQ ID NO: 1)

CAG C CG G C C

C

Aro2 – *aroA* – GGAATTCATCAGGAATATGATTCATATCCAT – reverse – *EcoRI* (SEQ ID NO: 2)

G G G G G G

AroB1 – *aroB* – GCAGATGCCCCGAAGCTTTTTATAGCGG (SEQ ID NO: 3)

AroB2 – *aroB* – GAGCTCGGTACCGTGCAGCGTGTCAGATCTGCAAG (SEQ ID NO: 4)

AroB3 – *aroB* – CATAAAGGGATCCTGGTTCGCCAG (SEQ ID NO: 5)

AroB4 – *aroB* – GGTACCGAGCTCCAAATGAAGGCAGATCTCGTCGCCC (SEQ ID NO: 6)

AsdA – *asd* – ACAATGAAAGTAGAATTCGTCGGCTGG – forward – *EcoRI* (SEQ ID NO: 7)

C

AsdB – *asd* – GAATGCGGAGATGAATTCGCCGCCCAT – reverse – *EcoRI* (SEQ ID NO: 8)

G C T

FurD – *fur* – CCCTGCTCACGTCGACCAG – reverse – *SalI* (SEQ ID NO: 9)

FurE – *fur* – ACGCGGTCGACGCTGCACG – forward – *SalI* (SEQ ID NO: 10)

FurF – *fur* – AATACGCAATTGGATCCTGCTTGC – reverse – *BamHI* (SEQ ID NO: 11)

FurG – *fur* – GATATTGAATCATATGGAAAAATTC – forward – *NdeI* (SEQ ID NO: 12)

galEA – *galE1* – GTGATTTTGGATAAGCTTTGCAATTCC – forward – *HindIII* (SEQ ID NO: 13)

galEB – *galE1* – CCAGCGCCATGAAGCTTCCATCAT – reverse – *HindIII* (SEQ ID NO: 14)

lac1 – *lacI* – GACAGGATCCAATGGTGCAAAACC – forward – *BamHI* (SEQ ID NO: 15)

lac3 – *lacZ* – AATCATGGTCATATGTGTTTCCTG – reverse – *NdeI* (SEQ ID NO: 16)

recA1 – *recA* – CGGAATTCGGTCTGAAGCGGATG – forward – *EcoRI* (SEQ ID NO: 17)

recA2 – *recA* – CGCAGCAGGAATTCCCGTTTATCG – reverse – *EcoRI* (SEQ ID NO: 18)

Please replace the paragraph at page 25, lines 22-29, with the following paragraph:

Vectors

Vectors used for transformation of *N. meningitidis* include uptake sequences to assist with uptake of the vector by the bacterium. These sequences comprise a 10-mer inverted repeat (Goodman and Socca, Proc. Natl. Acad. Sci. (1988) 85:6982-6986). The nucleotide sequence of the uptake sequence used is shown below, with the inverted repeats underlined in bold.

GGGCCCCGGGCTGCA**GCCGTCTGAAATGCATTT****CAGACGGCT**GCAGCCCCGGGCCC
(SEQ ID NO: 19)